Hook-on Scaffolding

Technology for the Building Industry

Technical Data Sheet.

MAIN SHAFT WITH HOOKING EYES.

The Main Shaft is a square tubing 50mm by 50mm by 1.6mm and the average length is 1.65 metres. Hooking eyes are welded to the main shaft at the required safety height with a 6mm gap from the main shaft. Hooking eyes are different to some hooking eyes in that they have a hole to enable a spring-loaded pin to lock the hook-on arm to the main shaft. There is a nut welded inside the bottom of the main shaft to which the safety bracket is attached.

HOOK PLATE.

The Hook Plate is welded to the main shaft which hangs over the top plates of timber/metal frame. The hook plate is 100mm wide to suit 95mm to 100mm top plates.

HOOK ON ARM.

The hook on arm is made from steel which consists of two bars, the first being a horizontal bar and the other bar is at an angle. It has a non adjustable hooking lug at the end of the horizontal bar and the end of the angle bar. Hooking lug has a hole in it to enable a spring-loaded pin to lock the hook on arm to the main shaft. For extra strength braces are welded between the horizontal bar and the angle bar. The hook on arm hooks into the hooking eyes, on the main shaft, which are set at the appropriate working height conditions. At each end of the arm is a plank safety hook to hold the two planks in place and between each plank there is a divider lug. On the outside of the hook on arm a cylinder is welded to hold the safety rail. The rating for each arm is 225Kg.

HOOK-ON SCAFFOLDING

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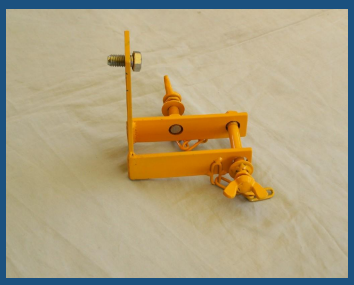

SAFETY BRACKET.

The safety bracket is bolted to the main shaft and locks around the stud of timber/metal. The safety bracket is a `U' shaped frame of flat steel. It is held in place around the stud by a wing bolt. The safety bracket can be rotated 90 degrees to suit noggins on a frame. The safety bracket consists of a back plate which can be rotated and has a hole to insert a bolt to attach the safety bracket to the main shaft. Two side plates (are attached to the back plate. Side plate has two nuts welded to accommodate wing bolts and safety chain is also welded to it. Side plate has a hole to accommodate wing bolt , and the safety chain is also welded to it.

LOCKING WING BOLT.

A wing bolt is at the end of the safety bracket and a locking wing bolt, which bites into the stud, is half way along the safety bracket. The two wing bolts are on opposite sides of the safety bracket. Attached to each wing bolt are safety chains. On each wing bolt there is a spacer washer to control penetration of the wing bolts.

SPRING-LOADED MECHANISM

The spring-loaded mechanism is a safety feature that secures the hook-on arm to the main shaft. The spring-loaded mechanism consists of a U-shaped bracket, spring-loaded pin and spring . Pin extends through holes in bracket and is provided with a hole for attachment of a split ring. Pin is further provided with a washer welded to the shaft of the pin.

SAFETY RAIL .

The safety rail consists of two to three horizontal rails utilising telescopic aluminium tubing. There are two upright posts, each having three snap lock hooks , one hook being at the top of the post and the other at the centre of the post. The bottom end of the upright post is inserted into the cylinder welded to the hook-on arm. The Safety rail is held in place by the snap lock hooks to upright posts . A locking arm locks the safety rail to the frame with a snap lock on one end and a hook on the other end. The hook has a hole so it can be fixed to the shaft.

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